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[1. H4.01: Crew Survival Systems for Launch, Entry, Abort](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:JSC This subtopic seeks technology innovation supporting the launch, entry, and abort (LEA) crew survival equipment needs for future human exploration beyond low-earth orbit. Primary goals include development of technologies enhancing crew survival in the launch, entry, and abort phases of flight as well as the post-landing environment, significant mass reduction of hardware, and deve ...

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[2. H4.02: EVA Space Suit Pressure Garment Systems](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:JSC Space suit pressure garments technology developments are focused on providing enabling technologies for long-duration missions inclusive of extensive extra-vehicular activity (EVA). To that end, priority technologies address mass reductions, durability and reliability. Mass reduction for exploration pressure garments is driven, in addition to launch mass considerations, by the hum ...

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[3. H4.03: EVA Space Suit Power, Avionics, and Software Systems](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:JSCParticipating Center(s):GRCSpace suit power, avionics and software (PAS) advancements are needed to extend EVA capability on ISS beyond 2020, as well as future human space exploration missions. NASA is presently developing a space suit system called the Advanced Extravehicular Mobility Unit (AEMU). The AEMU PAS system is responsible for power supply and distribution for the overall ...

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[4. H4: Extra-Vehicular Activity and Crew Survival Systems Technology](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Extra-Vehicular Activity (EVA) and crew survival systems technology advancements are required to enable forecasted microgravity and planetary human exploration mission scenarios and to support potential extension of the International Space Station (ISS) mission beyond 2020. Advanced EVA systems include the space suit pressure garment systems (PGS); the portable life support system (PLSS); the powe ...

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[5. H5.01: Deployable Structures](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:LaRCParticipating Center(s):JSC,GRCThis subtopic seeks deployable structures innovations in two areas for proposed deep-space space exploration missions: Large deployable solar arrays for 50+ kW solar electric propulsion (SEP) missions.Lightweight deployable hatches for manned inflatable structures.Design solutions must minimize mass and launch volume while meeting other mission requi ...

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[6. H5.02: Extreme Temperature Structures](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:MSFCParticipating Center(s):LaRCThis subtopic seeks to develop innovative low cost and lightweight structures for cryogenic and elevated temperature environments. The storage of cryogenic propellants and the high temperature environment during atmospheric entry require advanced materials to provide low mass, affordable, and reliable solutions. The development of durable and affordable ...

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[7. H5.03: Multifunctional Materials and Structures](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:LaRCParticipating Center(s):JSC,MSFC,GRCMultifunctional and lightweight are critical attributes and technology themes required by deep space mission architectures. Multifunctional materials and structural systems will provide reductions in mass and volume

for next generation vehicles. The NASA Technology Roadmap TA12, "Materials, Structures, Mechanical Systems, and Manufacturing" (...

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8. H5: Lightweight Spacecraft Materials and Structures

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

The SBIR topic area of Lightweight Spacecraft Materials and Structures centers on developing lightweight structures and advanced materials technologies for space exploration vehicles including launch vehicles, crewed vehicles and habitat systems, and in-space transfer vehicles. Lightweight structures and advance materials have been identified as a critical need since the reduction of structural m ...

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9. H6.01: Human Robotic Systems- Mobility Subsystem, Manipulation Subsystem, and Human System Interaction

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:JSCParticipating Center(s):KSC,ARCThe objective of this subtopic is to create human-robotic technologies (hardware and software) to improve the exploration of space.Robots can perform tasks to assist and off-load work from astronauts. Robots may perform this work before, in support of, or after humans.Ground controllers and astronauts will remotely operate robots using a range of contr ...

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10. H6: Autonomous & Robotic Systems

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

NASA invests in the development of autonomous systems, advanced avionics, and robotics technology capabilities for the purpose of enabling complex missions and technology demonstrations supporting the Human Exploration and Operations Mission Directorate (HEOMD). The software, avionics, and robotics elements requested within this topic are critical to enhancing human spaceflight system functionalit ...

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